Type: ASK Superheterodyne Receiver

Model: RXB29-XXX-V

General Discription:

The RXB29 is a ASK superhet receiver based on Xtal, which is designed with high sensitivity, long distance, easy use for designing, it can be able to fulfill most demands of European market specially.

XXX:Customer specifinedf requency (315,433.92MHz or others are availabe)

V: version numbers

V1.0 comersion level versio

V2.0 industrial lever version

Key Features:

§ Frequancy: 315M/433.92M/868.35 MHz(others available);
§ High sensitivity: -110dBm@433.92 1kbps BER10E-2;
§ supply voltage: VCC= 3.3 to 5.5 V;
§ IF band: 230KHz;
§ low power cosumption: 3.9mA@315M, 6mA@433.92M,9mA@868.35M;
§ Wide operating temperature;
§ Excellent selectivity and noise rejection;
§ Easy for applica;
§ Analog RSSI Output(only for V2.0) ;
§ European pin-out.

Applications:

- Garage door and gate openers
- Remote controls
- Remote fan and light control
- Smart home system

- Alarm and security system

Absolute Maximum Rating:

SYMBOL	PARAMETER	CONDITION	UNIT	RATING
Vcc	Supply voltage		V	-0.3～6.5
	Soldering Temperature	10 sec	℃	350 ℃
Tstg	Storage temperature		℃	-60～+125

Electrical Parameters:

Condition: Ta=25℃ Vcc=5.0V Frequency=315MHz

Parameter	Specification			Unit	Condition
	Min	Typ	Max		
Frequency Range	300	315	930	MHz	Others available
Receiver Sensitivity		-110		dBm	BER=10E-2
Bit Rate	0.058	2.4	7.2	Kbits	Manchester code
Supply Voltage	3.3		5.5	V	DC
Current		3.9		mA	
Operating Temperature	-40		+85	℃	

Condition: Ta=25℃ Vcc=5.0V Frequency=433.92MHz

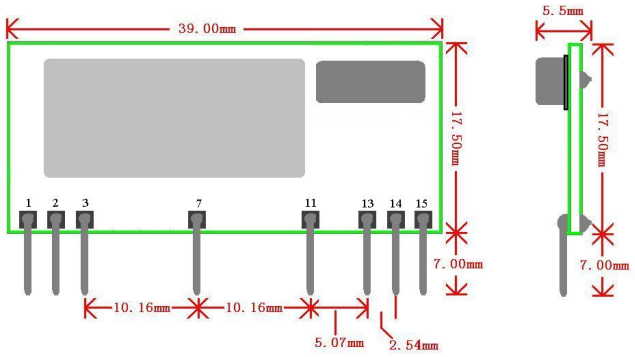
Parameter	Specification			Unit	Condition
	Min	Typ	Max		
Frequency Range	300	433.92	930	MHz	Others available
Receiver Sensitivity		-110		dBm	BER=10E-2
Bit Rate	0.058	2.4	10.0	Kbits	Manchester code
Supply Voltage, VDD	3.3		5.5	V	DC
Current		6.0	6.0	mA	
Operating Temperature	-40		+85	℃	

Condition: Ta=25℃ Vcc=5.0V Frequency=868.35MHz

Parameter	Specification			Unit	Condition
	Min	Typ	Max		
Frequency Range	850	868.35	950	MHz	Others available
Receiver Sensitivity		-108	-109	dBm	BER=10E-2
Data Rate	0.058		10.0	Kbits	Manchester code
Supply Voltage, VDD	3.0	5.0	5.5	V	DC
Current			9 .0	mA	
Operating Temperature	-40		+85	℃	

Note: V1.1 not support for 868.35MHz

Pin Description:



Conection:

Pin 1	**N.C.**	Not connected.
Pin 2-7	**Ground**	GND
Pin 3	**Antenna**	Antenna input, impedance 50 ohm.
Pin 11	**N.C.**	Not connected.
Pin 13	**RSSI Out – Test point**	RSSI output proportional to the amplitude of the input signal.
Pin 14	**Data output**	Data output from the receiver.
Pin 15	**+Vs**	Positive Voltage supply.